Rejections Under 35 USC 103

Claims 1-21 remain rejected because the Examiner contends that the Hattersley et al. disclosure directed to BMP in combination with parathyroid hormone (PTH), is relevant to the claimed invention because of the open term "comprising." According to the Examiner, the claimed method and composition of an effective amount of BMP does not exclude the use of PTH because of the term "comprising." Applicants submit that the claimed invention requires only BMP for articular cartilage repair, while Hattersley et al. requires both BMP and PTH. PTH is not required in Applicants' invention, but is a required element of the Hattersley et al. disclosure. Therefore, Applicants' invention is not obvious over Hattersley et al. because Hattersley et al. does not teach or suggest that a BMP, such as BMP-2, alone can be effective in the repair and regeneration of articular cartilage.

It is contended that Nevo et al. directed to compositions such as embryonal chondrocytes or embryonal chondrocytes together with growth factors such as CDGF, BDGF for repairing damaged cartilage, also teaches osteochondral grafting in repairing damaged cartilage. Therefore, the Examiner contends that where Hattersley et al. teaches chondrocytes as a tissue source in cartilage development it would have been obvious to modify Hattersley et al. by using the teaching of Nevo et al. to further support chondrocytes as a tissue source as well as osteochondral grafts. Applicants submit, however, that one skilled in the art would not substitute PTH, which Hattersley et al. disclose as an essential factor for chondroctye development and maturation, with osteochondral graft. While Hattersley et al. disclose PTH as an essential factor in chondrocyte development and maturation it is also disclosed (at Col. 2, lines 3-6) that

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PTH expression in articular cartilage varies in intensity and localization during development, while the PTH receptor is highly expressed in the growth plate and in articular cartilage. Therefore one skilled in the art would not likely substitute PTH with osteochondral graft with the expectation of the regeneration of articular cartilage.

Reconsideration of the application is requested. Should the Examiner believe that a telephonic interview would assist in clarifying any remaining issues, the Examiner is invited to call the undersigned attorney.

Please grant any extensions of time required to enter this response and charge any additional required fees to our deposit account 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.

onell (keg. No. 34, 872)

Dated: May 29, 2002

Ellen J. Kapinos Reg. No. 32,245

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